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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/044,151	01/10/2002	Paul Augustus Thomas III	2079.007000	1125
7	7590 12/15/2004		EXAM	INER
B. NOEL KIVLIN			DU, THUAN N	
MEYERTONS	S, HOODS ,KIVLIN, K	OWERT & GOETZEL, P.C.		· · ·
P.O. BOX 398			ART UNIT	PAPER NUMBER
AUSTIN, TX 78767-0398		2116		

DATE MAILED: 12/15/2004

Please find below and/or attached an Office communication concerning this application or proceeding.

.,,	Application No.	Applicant(s)			
	10/044,151	THOMAS, PAUL AUGUSTUS			
Office Action Summary	Examiner	Art Unit			
	Thuan N. Du	2116			
The MAILING DATE of this communication appears on the cover sheet with the correspondence address Period for Reply					
A SHORTENED STATUTORY PERIOD FOR REP THE MAILING DATE OF THIS COMMUNICATION - Extensions of time may be available under the provisions of 37 CFR 1 after SIX (6) MONTHS from the mailing date of this communication. - If the period for reply specified above is less than thirty (30) days, a re If NO period for reply is specified above, the maximum statutory perio - Failure to reply within the set or extended period for reply will, by statu Any reply received by the Office later than three months after the mail earned patent term adjustment. See 37 CFR 1.704(b).		ely filed s will be considered timely. the mailing date of this communication. O (35 U.S.C. § 133).			
Status					
1) Responsive to communication(s) filed on 10	January 2002.				
	is action is non-final.	·			
	Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under <i>Ex parte Quayle</i> , 1935 C.D. 11, 453 O.G. 213.				
Disposition of Claims					
4) Claim(s) 1-31 is/are pending in the application 4a) Of the above claim(s) is/are withdrest is/are allowed. 5) Claim(s) 8-12 and 20-24 is/are allowed. 6) Claim(s) 1-7,13-19 and 25-31 is/are rejected. 7) Claim(s) is/are objected to. 8) Claim(s) are subject to restriction and are	awn from consideration.				
Application Papers					
9)☐ The specification is objected to by the Examir	ner.				
10)☐ The drawing(s) filed on is/are: a)☐ accepted or b)☐ objected to by the Examiner.					
Applicant may not request that any objection to the	e drawing(s) be held in abeyance. See	37 CFR 1.85(a).			
Replacement drawing sheet(s) including the corre	• • • • • • • • • • • • • • • • • • • •	` '			
Priority under 35 U.S.C. § 119					
12) Acknowledgment is made of a claim for foreign a) All b) Some * c) None of: 1. Certified copies of the priority documer 2. Certified copies of the priority documer 3. Copies of the certified copies of the priority application from the International Bureat * See the attached detailed Office action for a list	nts have been received. Its have been received in Application Ority documents have been receive au (PCT Rule 17.2(a)).	on No d in this National Stage			
Attachment(s)	·				
 Notice of References Cited (PTO-892) Notice of Draftsperson's Patent Drawing Review (PTO-948) 	4) Interview Summary (Paper No(s)/Mail Da				
 Notice of Draitsperson's Patent Drawing Review (F10-946) Information Disclosure Statement(s) (PTO-1449 or PTO/SB/08 Paper No(s)/Mail Date 20040916. 		atent Application (PTO-152)			

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DETAILED ACTION

1. It is hereby acknowledged that the following papers have been received and placed of record in the file: IDS (dated 9/16/04).

2. Claims 1-31 are presented for examination.

Claim Rejections - 35 USC § 102

3. The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless -

- (e) the invention was described in (1) an application for patent, published under section 122(b), by another filed in the United States before the invention by the applicant for patent or (2) a patent granted on an application for patent by another filed in the United States before the invention by the applicant for patent, except that an international application filed under the treaty defined in section 351(a) shall have the effects for purposes of this subsection of an application filed in the United States only if the international application designated the United States and was published under Article 21(2) of such treaty in the English language.
- 4. Claims 1 and 13 are rejected under 35 U.S.C. 102(e) as being anticipated by Holm et al. [Holm] (U.S. Patent No. 6,820,164).
- 5. Regarding claim 1, Holm teaches a method of controlling the initialization of devices at system startup comprising the step of creating one or more levels of device tree nodes branching from a root node (PHB 104, 105, or 106) [Fig. 1; col. 25, lines 37-52]. However, it is seen that, in Fig. 1, Holm shows the number of levels of device tree nodes is 2 (MFDs 108, 109 and devices 110, 112 are at level 1 and devices 114 are at level 2). Additionally, Holm shows that, also in Fig. 1, a recursion depth is 2 (PHB and MFD). Therefore, Holm teaches the number of levels of device tree nodes is equal to a recursion depth.

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6. Regarding claim 13, Holm teaches the claimed method steps. Therefore, Holm teaches the instructions stored in a machine-readable media for carrying out the claimed method steps.

Claim Rejections - 35 USC § 103

- 7. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:
 - (a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.
- 8. Claims 2-7, 14-19 and 25-31 are rejected under 35 U.S.C. 103(a) as being unpatentable over Holm et al. [Holm] (U.S. Patent No. 6,820,164).
- 9. Regarding claims 2 and 14, Holm does not explicitly teach that the recursion depth is a property published by the root node and the one or more levels of devices tree nodes. However, it would have been obvious to one of ordinary skill in the art at the time of the invention to include the recursion depth in the property published by the root node and the one or more levels of devices tree nodes because it would reduce the initialization time of the system.
- 10. Regarding claims 3 and 7, Holm teaches a method of controlling the initialization of devices at system startup comprising the steps of:

incrementing a recursion level (when the connected device is detected to be a MFD, the process continues at the MFD level. Therefore, the recursion level is incremented to another level) [col. 26, lines 53-54, 63-65]; and

device tree nodes [col. 26, line 66 to col. 27, line 7].

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Holm does not explicitly teach that the recursion level is less than a recursion depth.

However, it would have been obvious to one of ordinary skill in the art to recognize that in order for the recursion level to be incremented, the recursion level should be less than the recursion

depth.

11. Regarding claim 4, Holm teaches that the method further comprising the step of

initializing the recursion level at the root node to zero [col. 26, lines 13-24].

12. Regarding claim 5, Holm does not explicitly teach that the recursion depth is a property

published by the root node and the one or more levels of devices tree nodes. However, it would

have been obvious to one of ordinary skill in the art at the time of the invention to include the

recursion depth in the property published by the root node and the one or more levels of devices

tree nodes because it would reduce the initialization time of the system.

13. Regarding claim 6, Holm teaches that the level of device tree nodes inherits the recursion

level from its parent node [Fig. 1].

14. Regarding claims 15-19, Holm teaches the claimed method steps. Therefore, Holm

teaches the instructions stored in a machine-readable media for carrying out the claimed method

steps.

15. Regarding claims 25-31, Holm teaches the claimed method steps. Therefore, Holm

teaches the apparatus to implement the claimed method steps.

Allowable Subject Matter

16. Claims 8-12 and 20-24 allowed.

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17. The following is an examiner's statement of reasons for allowance: Applicant's claimed invention distinguishes over the prior art for the following reasons. The claims are allowable over the prior art of record because none of the references, either alone or in combination, discloses or renders obvious, among other things, a method of controlling recursion at system startup including the step of comparing a recursion level to a recursion depth and discontinuing the process of incrementing the recursion level and creating the level of device tree nodes in response to the recursion level being equal to the recursion depth.

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Conclusion

18. Any inquiry concerning this communication or earlier communications from the examiner should be directed to Thuan N. Du whose telephone number is (571) 272-3673. The examiner can normally be reached on Monday and Wednesday-Friday: 10:00 AM - 8:30 PM, EST.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Lynne H. Browne can be reached on (571) 272-3670.

Central TC telephone number is (571) 272-2100.

The fax number for the organization is (703) 872-9306.

19. Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR

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system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private

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PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll free).

Thuan N. Du

December 8, 2004